

Sustainability and NDS

Philip Hubertus Sr. Product Manager – Automated Driving Content

June 2021

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Sustainability







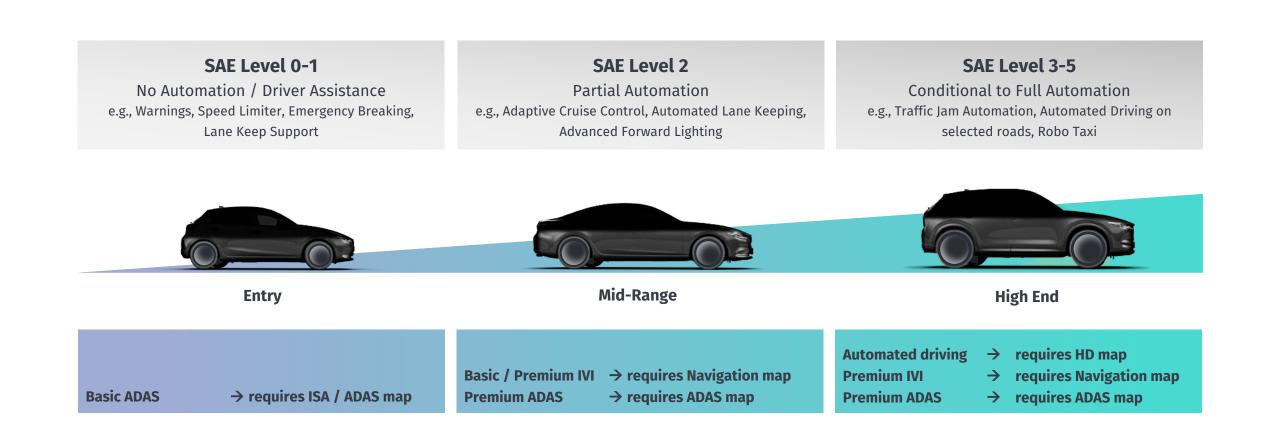
Sustainability





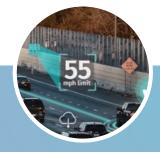


From basic ADAS to Automated Driving





Automotive Map Products







HERE ISA Map

For Intelligent Speed Assist

HERE ADAS Map

For ADAS/electronic horizon

HERE Navigation Map

For premium IVI/embedded navigation

HERE HD Live Map

For driver assistance and automated driving





HERE ISA Map

- For for Intelligent Speed Assistance (without ADAS or Navigation)
- Road topology and selected attributes
- Additional routing features: City limits, prohibited passage
- Explicit and implicit speed limits
- Available as RDF if customer wants to compile into proprietary format
- Using most recent NDS.Classic 2.5.4 spec
- Ready via NDS.Live service in Q3/2021





HERE ADAS Map

- For ADAS and electronic horizon
- ADAS features: Curvature, Gradient, Slope
- Additional routing features: City limits, prohibited passage, speed limits, warning signs, etc.
- Using most recent NDS.Classic 2.5.4 spec
- Published monthly as an NDS database and ...
- ... publication as tile-based Platform catalog with weekly updates



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HERE Map for Navigation

- For premium IVI navigation
- Seamless integration of all navigation relevant basic and premium HERE content products, e.g.
 HERE Maps, HERE Guidance & Routing, HERE Road Infrastructure & Usage, HERE Road Rules & Regulations, HERE Lanes, HERE Places & Points, HERE Areas & Boundaries, HERE Buildings & Structures, HERE Imagery & Topography
- Support for voice recognition
- Using most recent NDS.Classic 2.5.4 spec
- Monthly updates



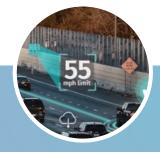


HERE HD Live Map

- For driver assistance and automated driving
- Cloud based, layered, tiled, software-ready
- Road Centerline Model with global SD map coverage with ADAS attributes like road topology, direction of travel, elevation, slope, etc.
- Precise Lane Model with features like lane drive path, lane types, lane widths, lane markings, lane speed limits, lane relationships etc.
- Localization Model with road-side objects like road signs, poles, barriers, overhead objects etc.
- Using most recent NDS.Classic 2.5.4 spec
- Updated daily



Automotive Map Products









For Intelligent Speed Assist

HERE ADAS Map

For ADAS/electronic horizon

HERE Navigation Map

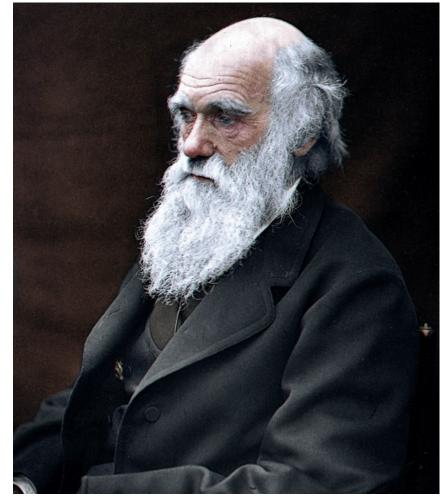
For premium IVI/embedded navigation

HERE HD Live Map

For driver assistance and automated driving



"It's not the strongest of the species that survive, but the ones that are responsive to change."



CC BY 2.0 Charles Darwin, by Julius Jääskeläinen



Change & Evolution



Mercedes-Benz Cooperative S-Class

Electric vehicle startup Canoo's skateboard-style platform

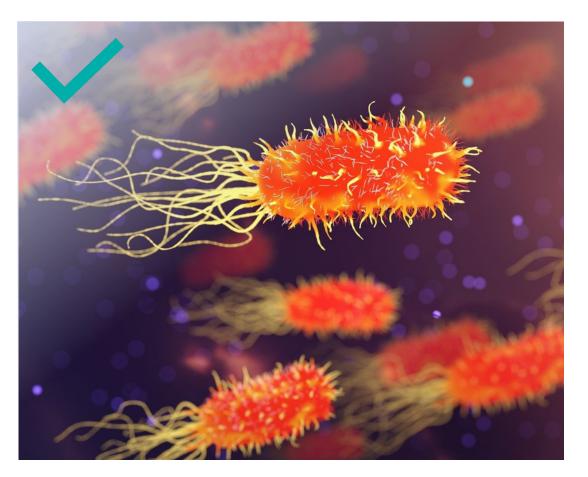


Sustainability = to endure

Sustainability = to endure Evolution = to prosper

Software and Data – evolving organisms

















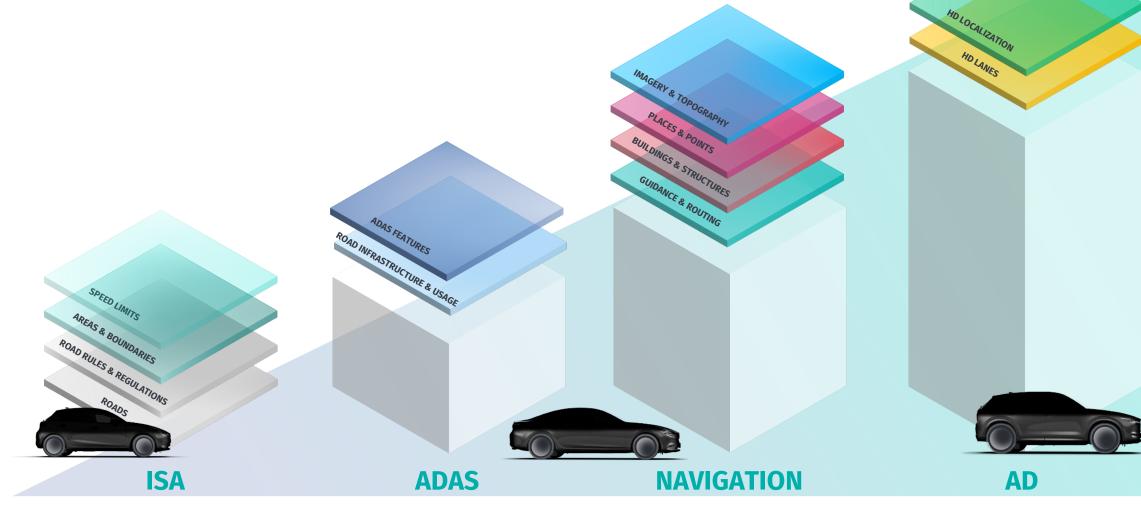






Map Content Layers

From Basic ADAS to Automated Driving





Map Content Layers

TRUCKS & COMMERCIAL VCLS

SPEED LIMITS

AREAS & BOUNDARIES

ROAD RULES & REGULATIONS

ROADS

ISA

From Basic ADAS to Automated Driving

ADAS FEATURES

ROAD INFRASTRUCTURE & USAGE

ADAS

Private Maps

Parking

EV Charging

IMAGERY & TOPOGRAPHY

PLACES & POINTS

BUILDINGS & STRUCTURES

GUIDANCE & ROUTING

NAVIGATION

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HD LOCALIZATION

HD LANES

Let's continue to evolve to continue to win



Honda Electro Gyrocator

HERE Auto SDK in Jaguar XF



Thank you

Philip Hubertus Sr. Manager, Product Management Automated Driving Content

NDS Public Conference, June 8th, 2021

